

OXYGEN ENRICHING DEVICE

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Inventor(s): KAWAI MITSUSHI; OKUNO HIRONOBU +

Applicant(s): DAIKIN IND LTD +

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- **international:** **B01D53/22; C01B13/02; B01D53/22; C01B13/02;** (IPC1-7): B01D53/22; C01B13/02

- **European:** C01B13/02D4B

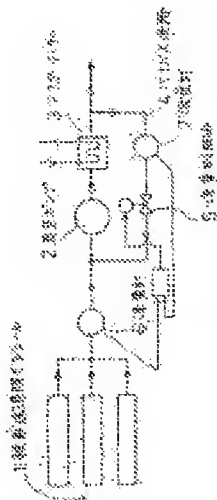
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Abstract of JP 1264905 (A)

PURPOSE:To effect the cooling by a vacuum pump and to maximize the yield with respect to the pump capacity by connecting an oxygen-permeable membrane module, the vacuum pump, and an aftercooler in series, and providing a bypass furnished with a flow control valve.

CONSTITUTION:The oxygen-permeable membrane module 1, e.g., a filter with the gas separation membrane consisting of a cross-linked fluorine-contg. acrylic acid derivative polymer as the element, the vacuum pump 2 consisting of an oil-free Roots blower, etc., for adiabatically compressing sucked air and discharging compressed air, and the aftercooler 3 for cooling the compressed air, are connected in series, and the bypass 4 provided with the flow control valve 5 is connected in parallel between the aftercooler outlet and the vacuum pump inlet. The opening degree of the valve 5 is controlled so that the ratio of the amt. of oxygen-enriched air from the module 1 to the bypass flow rate of the bypass 4 is specified.



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